

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-4 (Cancelled)

5. (currently amended) ~~Extruder~~ The combination single screw extruder and cooling liquid according to claim 20 with a screw LT/De ratio of between 2 and 10.

6. (currently amended) ~~Extruder~~ The combination single screw extruder and cooling liquid according to claim 20 wherein the H/wc ratio is under 0.2.

7-12 (Cancelled)

13. (Withdrawn)

14. (Withdrawn)

15. (currently amended) ~~Extruder~~ The combination single screw extruder and cooling liquid according to claim 20 with a screw LT/De ratio of between 2 and 5.

16. (currently amended) ~~Extruder~~ The combination single screw extruder and cooling liquid according to claim 21 wherein the H/wc ratio is over 0.1.

17-19 (Cancelled)

20. (Currently Amended) A combination single ~~Single screw extruder and cooling liquid~~ comprising an extruding screw and a barrel, said extruding screw having a length (LT) in contact with the barrel, a pitch length (Sp) and a screw diameter (De), said ~~single screw extruder~~ combination comprising cooling means constituted by a cooling circuit ~~wherein a~~ comprising said cooling liquid ~~is circulated~~, said extruding screw being characterised by from 3 to 4 thread starts and pitch angle defined as $\text{Arctg}(Sp/Pi.De)$ of between 32 and 42 degrees, said cooling liquid being ammonia.

21. (Currently amended) A combined single ~~Single screw extruder and cooling liquid~~, comprising an extruding screw and a barrel, said extruding screw having a length (LT) in contact with the barrel, a pitch length (Sp) and a screw diameter (De), said single screw extruder comprising cooling means constituted by a cooling circuit comprising ~~wherein a~~ said cooling liquid ~~is circulated~~, said extruding screw being characterised by a pitch angle defined as $\text{Arctg}(Sp/Pi.De)$ of between 32 and 42 degrees and a LT/De ratio of between 2 and 10.

22. (Currently amended) A combination single screw extruder and cooling liquid comprising an extruding screw and a barrel, said extruding screw having a length (LT) in contact with the barrel, a pitch length (Sp) and a screw diameter (De), said single screw extruder comprising a cooling circuit including ~~wherein a~~ said cooling liquid ~~is circulated~~, said extruding screw comprising between 2 and 6 thread starts and pitch angle defined as $\text{Arctg}(Sp/Pi.De)$ of between 32 and 42 degrees.

23. (Currently amended) A combined single screw extruder and cooling liquid, comprising an extruding screw and a barrel, said extruding screw having a length (LT) in contact with the barrel, a pitch length (Sp) and a screw diameter (De), said single

screw extruder comprising a cooling circuit including ~~wherein~~ a said cooling liquid is circulated, said extruding screw having a pitch angle defined as $\text{Arctg}(\text{Sp}/\text{Pi}.\text{De})$ of between 32 and 42 degrees and a LT/De ratio of between 2 and 10.